n nodes  $height - \frac{n}{1} \rightarrow 0(n)$ BST T r(fegn) O(h) 7 (12) K. n Keys (Sorted order) Prefix sum pi = inorder A ravessal Caryon give an

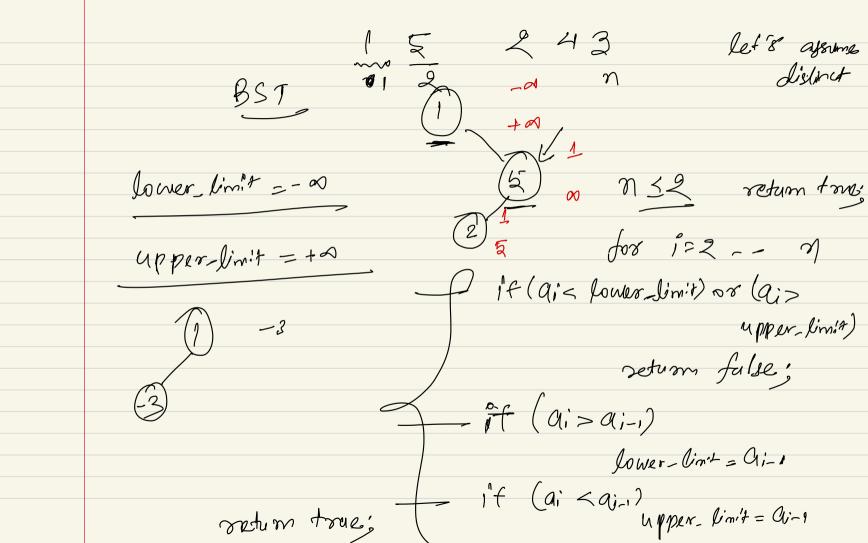
also trat

gives space

= Ki K 2% Cl. \_ 12 7 comp. Replace keys in with their Prefix sums Should 8till remove BST Time - 0 (n) Space - p(n)

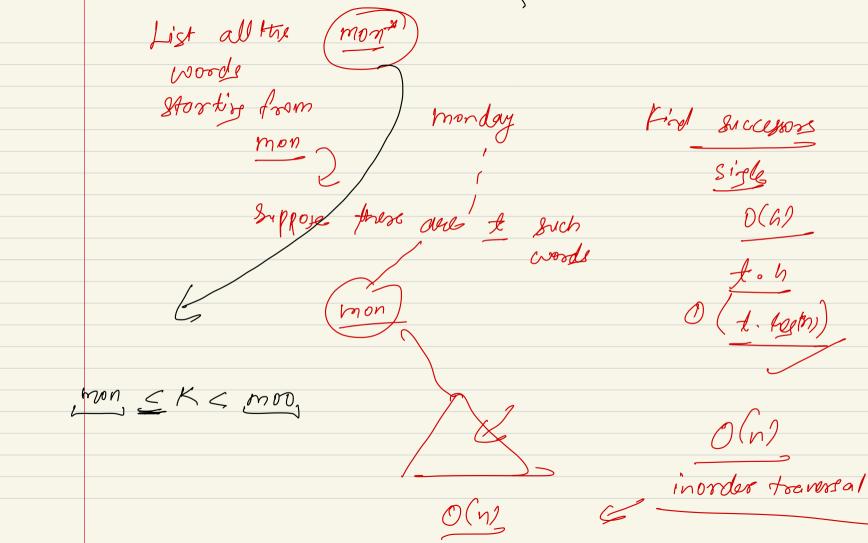
Sum=0 prefix Sum ( root) prefix Sum (BST T) Sif (T== NULL) return; Prefix Sum (T > L) o (Mrspaul Sum += T + Key; T -> Ky = Sum; Prefix Sur (T>R)

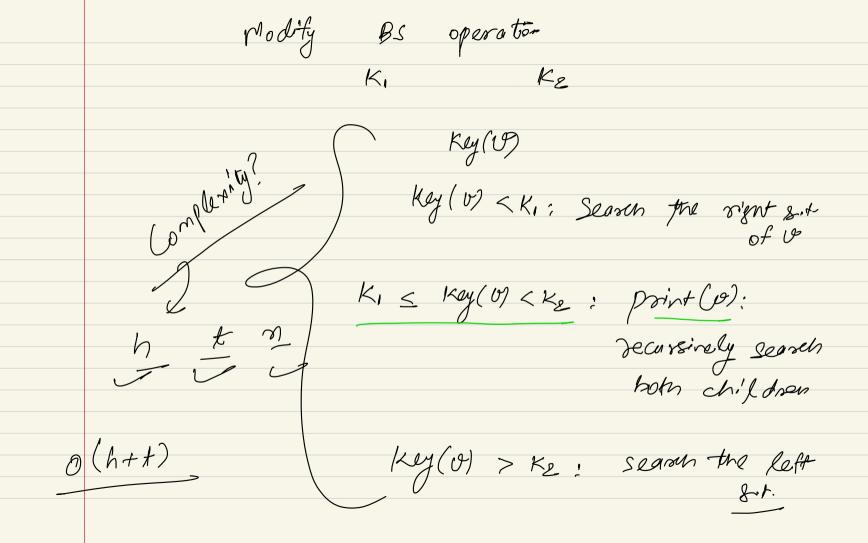
a sel, of integers You're to hell Ersent (in-this order) a BST whether inserting what is the man height of the BST? there element When? -> Wood not in this order a BST of the worst height (n-1)? De sorte will lead to Store the

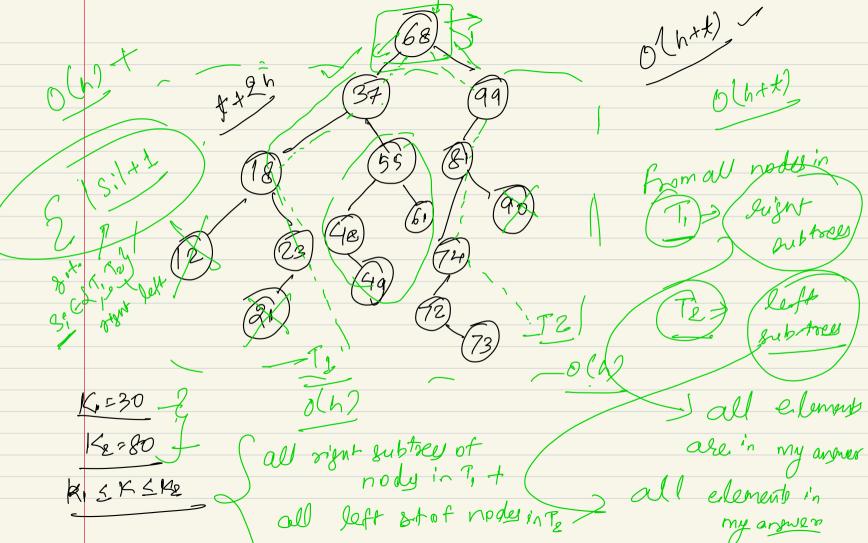


Kay dictionary ?

frysligh entries why down BST8? Set of words - words -I store there in a Ds Seach for of word) margo 1 (apple/ moon ) \_ Balance d O(h)







$$2^{nt} O(h)$$
+

 $2^{nt} O(h)$ 
 $5^{nt} O(h)$ 
 $5^$ 

Two sorted linked lists

Merge these into a

Merge these into a

Shele sorted linked link

BST8 into a

O(1) 8 pace? ERata tions Two BST8

m keys Merge these BSTs its or O(1) space?

Sigle BST

in O(1) space? Inorder -> linked bish O(n+m) Time - O(n+m) - Merge -> BCT Space - O(n+m) × O(n+m) -> O(n+m)-2

[3] = 15 ] 11 ] = 17] = 1.

O(n+m) time

O(n+m)-pace

(759)

